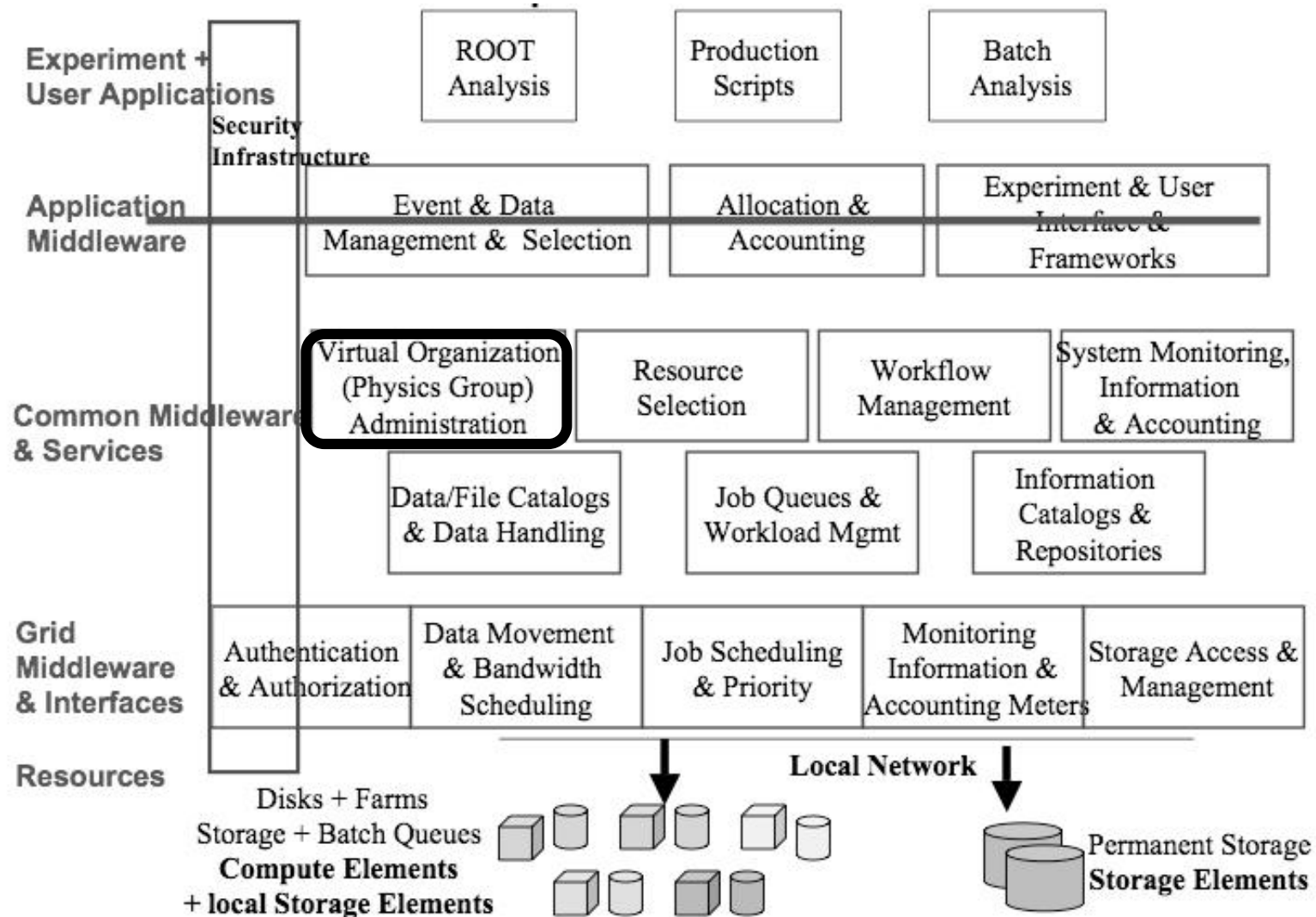# VOMRS Status

GDM Report

T. Levshina

Where does Privilege Fit in Grid Services

Milestones and Effort for 2006

Current Status:

- VOMRS 1.2.0 has been released on October 4th, 2005 (new features, bug fixes, oracle support)
- VOMRS 1.2.1 _GLITE (glite 1.4 package + gLite patches) has been released on November 15th , 2005
- VOMRS is installed at:
  - Fermilab (10 installations)
    - "Fermilab" VO ~4,600 members
    - "Dzero" VO   ~ 550 members
    - "USCMS" VO   ~   90 members
  - BNL (2 installations)
  - CERN (8 installations)
  - Texas Tech University   (2 installations)
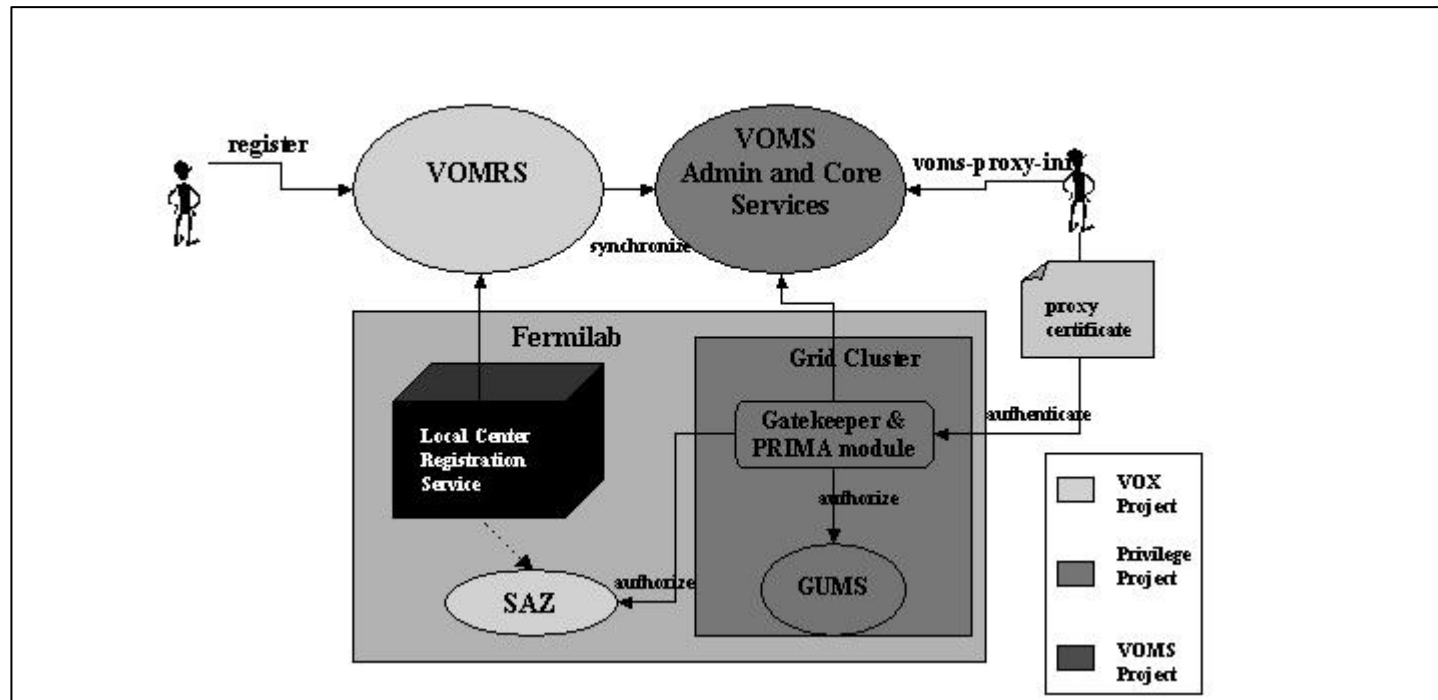 - University of Melbourne (1 installation)

Development:

- Working on new release v1.2.2
  - VOMRS/SAM Registration support
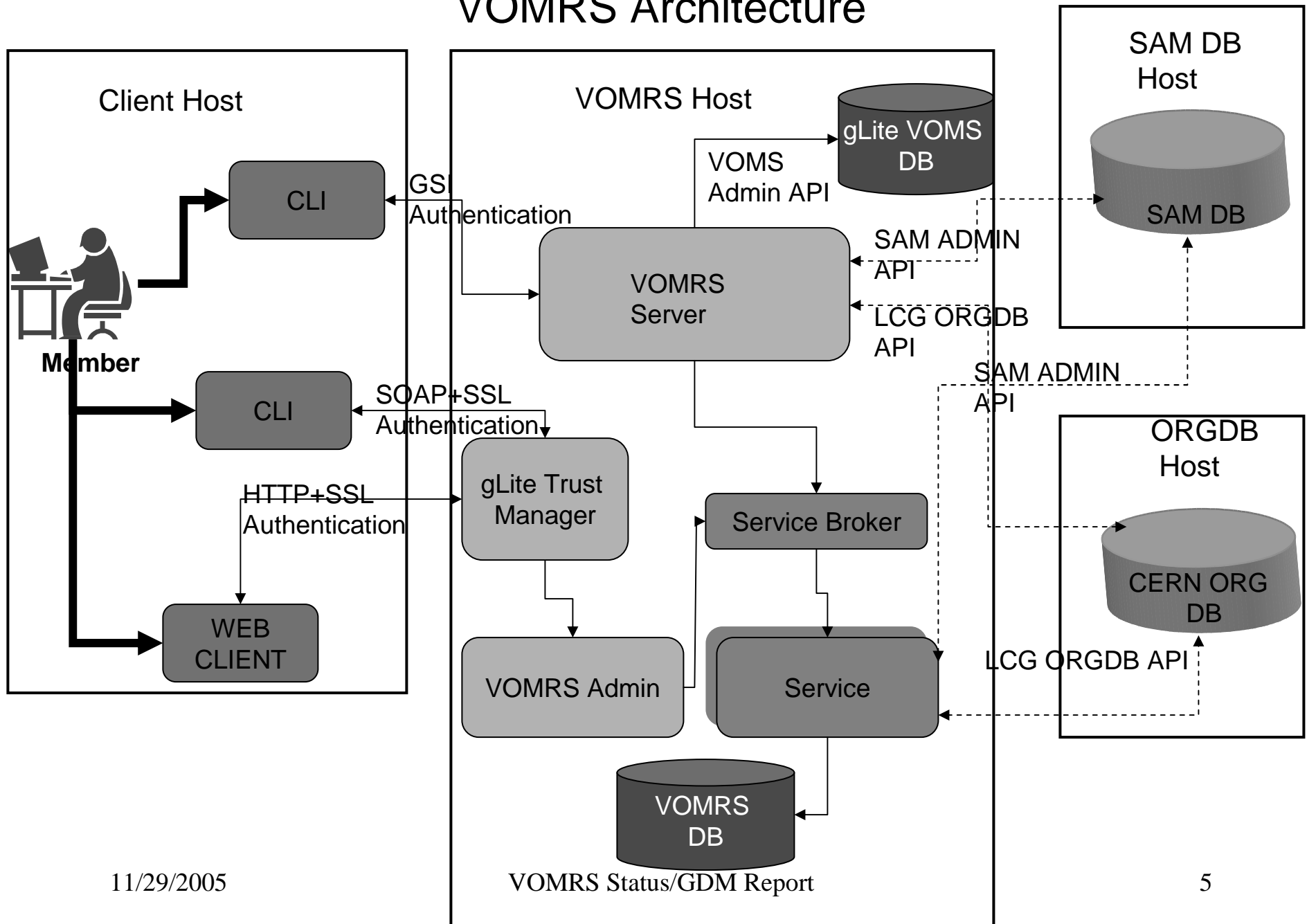 - Bug fixes

Maintenance and Support:

- Fermi Grid support
- On going work with LCG Task Force:
  - Migration from LDAP VO to VOMRS
  - Performance issues CERN Human Resource DB
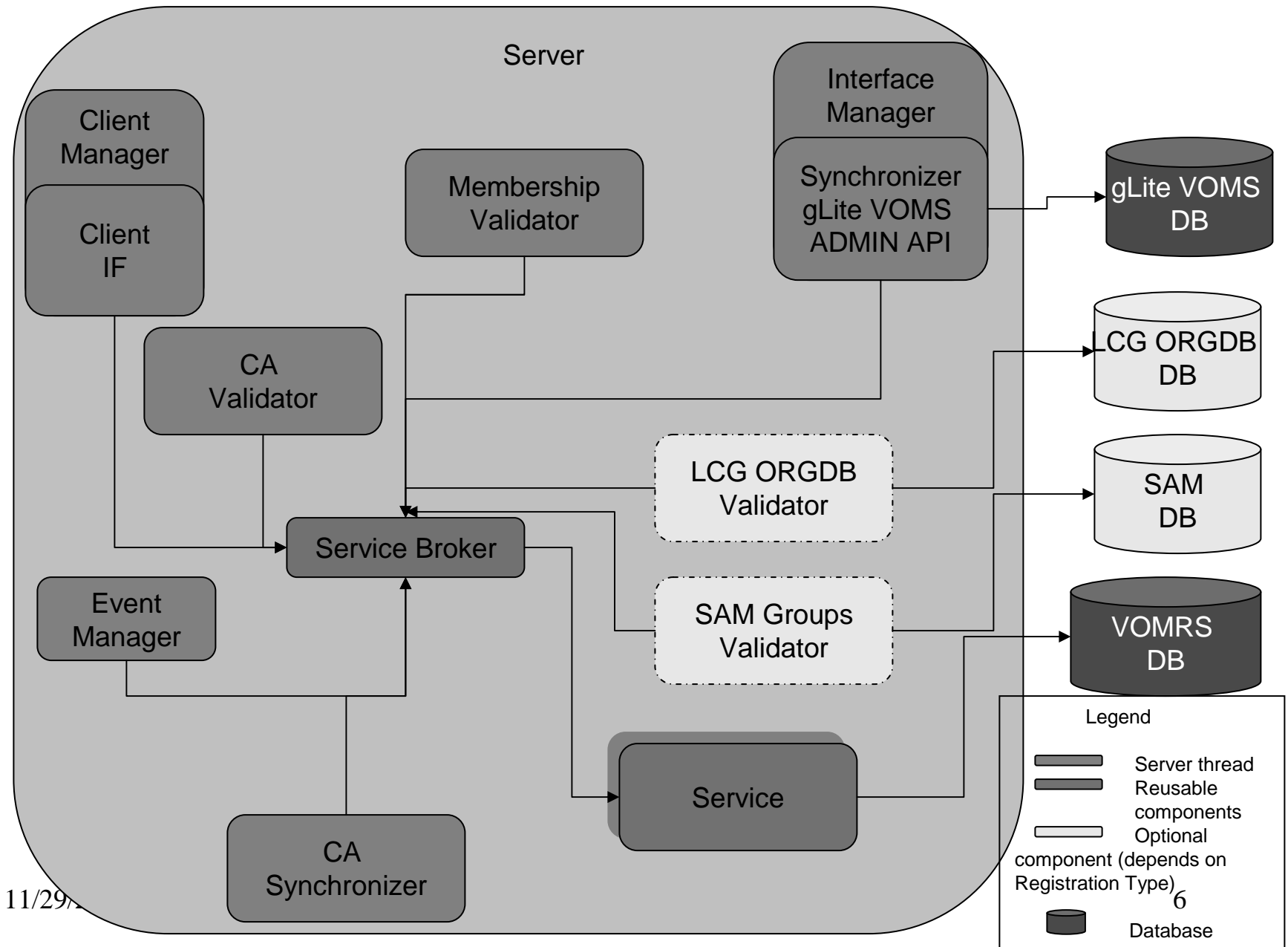 - Oracle issues
- Working on integration with VDT

VOMRS and Grid VO Management

VOMRS Architecture

VOMRS Status/GDM Report

VOMRS Server Architecture

Server

Client Manager
Client IF

Membership Validator

Interface Manager
Synchronizer gLite VOMS ADMIN API

gLite VOMS DB

CA Validator

LCG ORGDB DB

LCG ORGDB Validator

SAM DB

Service Broker

Event Manager

SAM Groups Validator

VOMRS DB

Service

CA Synchronizer

Legend

Server thread
Reusable components

Optional component (depends on Registration Type)

Database

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VOMRS/VOMS within the scope of GRID Services

GRID Middleware & Interfaces

Authentication & Authorization

Security Infrastructure
GUMS

Security Infrastructure
PRIMA

Security Infrastructure
SAZ

Common Middleware & Services

Virtual Organization

Administration

Security Infrastructure
VOMRS

Security Infrastructure
VOMS
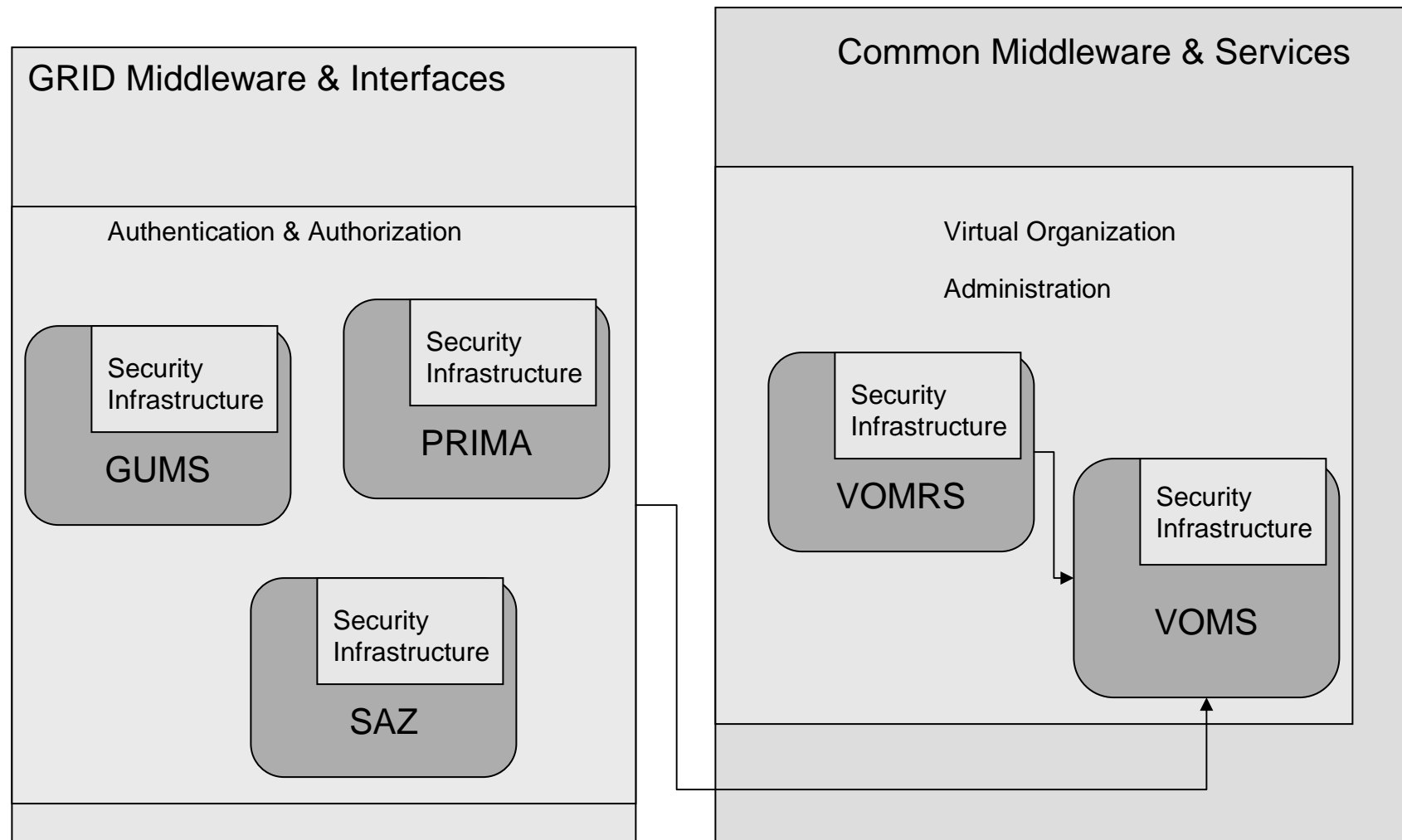
VOMRS Project
(Scope and Services)

Scope:

To investigate and implement the requirements, both policy-related and technical, for admitting collaborators into a VO, and facilitating and monitoring their authorization to access the available grid resources.

VOMRS provides a comprehensive set of services that facilitates management of VO membership and privileges:

- implements a registration workflow that requires
  - email verification of identity
  - VO usage policy acceptance
  - membership approval by designated VO representatives/administrators

- allows for management of multiple grid certificates per one user

- allows the selection of groups and roles by user and management of groups and group role assignments by various VO administrators.

- VOMRS maintains a VO membership status and a certificate level status for each member, allowing for VO-level control of a member's privileges and membership.

- VOMRS provides a subscription service; email notifications are sent when selected changes are made to information about a member's VO membership status and/or when actions are required by members or administrators.

- VOMRS provides for VO control over its trusted set of Certificate Authorities (CA).

- VOMRS is capable of interfacing to local systems with personnel information (e.g., the CERN Human Resource Database, SAM DB), and pulling or pushing relevant member information from/to them.

- VOMRS membership data can be configured to synchronize with the VOMS system (developed jointly for DataTAG by INFN and for DataGrid by CERN) with all approved members' certificates and privileges.